



Electro-Voice®
a MARK IV company

**Commercial
Microphones**

US637A/US637SA US637BA/US637SBA

GOOSENECK-MOUNTED PAGING MICROPHONE

SPECIFICATIONS

Element:

Dynamic

Frequency Response:

50-10,000 Hz (see Figure 1)

Polar Pattern:

Omnidirectional

Impedance:

150 ohms

Sensitivity:

Open Circuit Voltage:

0.87 mV/Pascal at 1,000 Hz

Power Level:

-62 dB at 1,000 Hz (0 dB = 1 mW/Pascal)

Case Material:

Die-cast zinc

Finish:

Non-reflecting silver (US637A/US637SA)

Non-reflecting black (US637BA/US637SBA)

Net Weight:

US637SA/US637SBA:

822 g (29 oz) including cable

US637A/US637BA:

794 g (28 oz) including cable

Dimensions,

Length:

597 mm (23.5 in.)

(includes 18 in. gooseneck)

Diameter:

40 mm (1.57 in.)

Mounting:

5/8-in. -27 thread in 2-3/4-in. diameter
steel flange

Shipping Weight,

US637A Series:

964 g (2 lb, 2 oz)

Switch,

US637SA/US637SBA:

DPDT push to talk

Activates mic in depressed position and
switches relay circuit

Cable,

US637SA/US637SBA:

1.8 m (6 ft) four-conductor two-shielded
PVC jacketed (grey)

US637A/US637BA:

1.8 m (6 ft) two-conductor shielded,
PVC jacketed (black)



DESCRIPTION

The Electro-Voice Model US637A Series are durable, shock-mounted microphones featuring an extended frequency response for intelligibility and combining attractive styling with ruggedness and high output level. Available in silver (US637A/US637SA) or black (US637BA/US637SBA), this series is ideally suited for use in bank drive-ups, fast-food restaurants, supermarkets, and other commercial applications. The replaceable element is shock mounted in a die-cast metal case. Attached to the metal case is an 18-inch flexible gooseneck terminating in a steel flange for surface mounting. The flange is slotted to provide the option for cable exit above the mounting surface. Sealed to prevent vapor penetration, the US637SA/US637SBA also provide a replaceable leaf-type switch designed to operate more than one million cycles. As shipped, the Electro-Voice US637A Series may be used as direct, ball-down replacements for most gooseneck paging applications.

The omnidirectional polar characteristic of these microphones, combined with their special frequency response, yields excellent voice intelligibility without the low-frequency accentuation and breath pops of a directional microphone. By combining an effective internal shock mount with the inherent low-shock sensitivity of an omnidirectional design, these microphones greatly reduce mechanically produced sounds caused by the user grasping and moving the microphone.

ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

Model US637A/US637BA

The model US637A shall be finished in a non-reflecting silver epoxy paint and chrome. The model US637BA shall be finished in a non-reflecting black epoxy paint. The microphone shall be an omnidirectional dynamic type with uniform frequency response from 50 to 10,000 Hz. The microphone impedance shall be 150 ohms. Output level shall be -62 dB with 0 dB equaling 1 mW/Pascal. Dimensions shall be 40 mm (1.57 in.) diameter and 597 mm (23.5 in.) long. The microphone shall include an 18-in. gooseneck and mounting flange, and shall include the options of complete concealment of cable when mounted or cable exit from the mounting flange. The microphone, gooseneck and mounting flange shall be all metal construction. A locking nut shall be provided to allow rotation of the microphone.

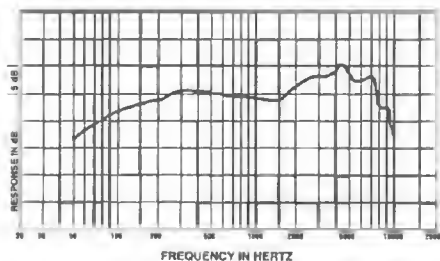


FIGURE 1

Typical Frequency Response

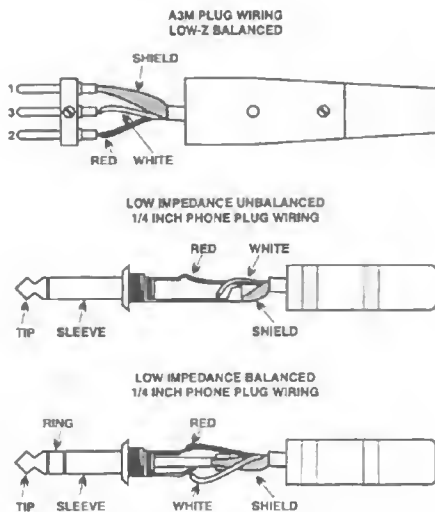


FIGURE 2
WIRING DIAGRAM

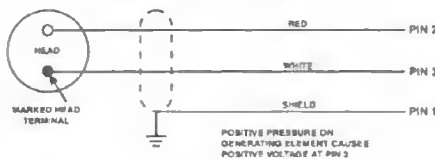


FIGURE 3
SERIES PHASE
US637A/US637BA

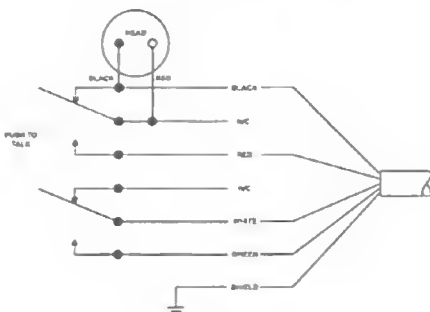


FIGURE 4
Wiring Diagram
US637A/US637BA

case. The rear cavity of the microphone shall be sealed to prevent vapor penetration. The element shall be shock mounted from the case and shall be replaceable. A 1.8 mm (6 ft) two-conductor shielded, vinyl jacketed cable shall be included.

The Electro-Voice Model US637A and US637BA are specified.

Model US637SA/US637SBA

The model US637SA shall be finished in a non-reflecting silver epoxy paint. The model US637SBA shall be finished in a non-reflecting black epoxy paint. The microphone shall be an omnidirectional dynamic type with uniform frequency response from 50 to 10,000 Hz. The microphone impedance shall be 150 ohms. Output level shall be -62 dB with 0 dB equaling 1 mW/Pascal. Dimensions shall be 40 mm (1.57 in.) diameter and 597 mm (23.5 in.) long. The microphone shall include an 18-in. gooseneck and mounting flange, and shall include the options of complete concealment of cable when mounted or cable exit from the mounting flange. The microphone, gooseneck and mounting flange shall be all metal construction. A locking nut shall be provided to allow rotation of the microphone case. The rear cavity of the microphone shall be sealed to prevent vapor penetration. The element shall be shock mounted from the case and shall be replaceable. A 1.8 mm (6 ft) two-conductor shielded, vinyl jacketed cable shall be included.

The microphone shall include a replaceable double-pole, double-throw leaf switch design tested over one million on and off cycles. The switch shall include options of microphone shorting or disconnection in the "off" position, with additional contacts to provide a short or open connection to two control wires. A rubber gasket shall seal the switch cavity.

The Electro-Voice Model US637SA and US637SBA are specified.

WARRANTY (LIMITED) —

Electro-Voice Commercial Microphones are guaranteed for two years from date of original purchase against malfunction due to defects in workmanship and materials. If such malfunction occurs, unit will be repaired or replaced (at our option) without charge for materials or labor if delivered prepaid to Electro-Voice. Unit will be returned prepaid. Warranty does not extend to finish, appearance items, cables, cable connectors, switches, or malfunction due to abuse or operation under other than specified conditions, nor does it extend to incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply to you. Repair by other than Electro-Voice will void this guarantee. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

For warranty repair and service information on Electro-Voice products, contact: Electro-Voice, Inc., 10500 West Reno, Oklahoma City, Oklahoma 73128 (405/324-5311 or 800/444-9516), Attention: Customer Service Department.

For technical assistance, contact the Technical Services Representative at Electro-Voice, Inc.

Repair locations:

Electro-Voice, Inc., 600 Cecil Street, Buchanan, MI 49107, Attention: Service Department.

Specifications subject to change without notice.

